Maximize Reliability, Minimize Intrusion with Connectorless Logic Analyzer Probes

Accurate, easy logic analyzer measurements start at the probe tips. The Keysight Technologies, Inc. E5300A Series and E5400A Pro Series soft touch probes meet the demand for accuracy and reliability while providing a connectorless attachment to your device. Quick, easy and repeatable signal access is achieved without designing in a connector. From basic state and timing analysis to resolving signal integrity problems in high-speed, low-amplitude signals, these low-intrusive probes help digital design engineers tackle their debug challenges.

Make Reliable Connections

The probe’s micro spring-pin technology provides reliable contact to signal pads, even when probing uneven printed circuit boards or contaminated surfaces. Soft touch probes eliminate the need for gold plating or special board processes, stiffeners, handling and cleaning.

Save Circuit Board Space

The Keysight E5400 Pro Series supports the new industry-standard interface for smaller connectorless probing. Their footprint is 30% smaller than our original soft touch probes. They also do not require any keepout area on the back side of the board, resulting in even greater space saving.
Simplify Signal Routing

The soft touch probe footprint allows flow-through routing of differential pair transmission lines as seen in Figure 2. This maintains constant separation between the two traces in each pair, thus ensuring constant differential-mode impedance. Also, flow-through routing eliminates stubs.

Minimize Signal Disturbance

< 0.7 pF capacitive loading ensures that your high-speed target system continues to maintain its tight timing margins with the soft touch probe attached.

Logic Analyzer Compatibility

Keysight E5402A, E5405B, E5406A, E5387A and E5390A are compatible with logic analyzers with 90-pin cable connectors

- 16950A, 16950B, 16951B
- 16760A
- 16962A
- U4154A (via U4154A cable)
- 16850 Series (via U4154A cable)

Keysight E5404A, E5394A are compatible with logic analyzers with 40-pin cable connectors

- 16910A/16911A
- 16800 Series
- 1680 Series
- 1690 Series

For more information on Keysight Technologies’ products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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